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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/220,434	12/24/1998	YOSHIAKI SHIOTA	P/2850-15	3503	
7	7590 12/27/2001				
OSTROLENK FABER GERB & SOFFEN 1180 AVENUE OF THE AMERICAS NEW YORK, NY 100368403			EXAMINER		
			TRAN, THIEN D		
			ART UNIT	PAPER NUMBER	
			2662		
				DATE MAILED: 12/27/2001	

Please find below and/or attached an Office communication concerning this application or proceeding.

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,		Application No).	Applicant(s)		
Office Action Summary		09/220,434		SHIOTA, YOSHIAKI		
		Examiner		Art Unit		
<u> </u>		Thien D Tran		2662		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cov	er sheet with the c	orrespondence address		
- Exte after - If the - If NO - Failu - Any I	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, how within the statutory mind apply and will expire cause the application	vever, may a reply be tim inimum of thirty (30) days a SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication.		
1)	Responsive to communication(s) filed on					
2a) <u></u>						
3)	Since this application is in condition for allowa closed in accordance with the practice under the	nce except for f	ormal matters, pro	osecution as to the merits is		
Dispositi	on of Claims	=x parto quayro	, 1000 O.D. 11, 4	55 O.G. 215.		
	Claim(s) <u>1-11</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdraw		ration			
	Claim(s) is/are allowed.	m nom conside	alion.			
	Claim(s) <u>1-11</u> is/are rejected.					
	Claim(s) is/are rejected. Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and/or on Papers	election require	ement.			
	The specification is objected to by the Examiner					
	The drawing(s) filed on is/are: a) ☐ accept		tad ta bu tha Fuan	-1		
10)	Applicant may not request that any objection to the					
11) 🗀 1	The proposed drawing correction filed on					
,	If approved, corrected drawings are required in repl			red by the Examiner.		
12)∏ T	The oath or declaration is objected to by the Exa	-	don.			
	nder 35 U.S.C. §§ 119 and 120					
	Acknowledgment is made of a claim for foreign	priority under 3	5115C \$ 110(a)	(d) ~~ (f)		
	☑ All b)☐ Some * c)☐ None of:	priority under 3.	0.5.C. 9 119(a)	-(a) or (r).		
	,	hava haan raas	المرادات			
	1. Certified copies of the priority documents2. Certified copies of the priority documents					
	 Copies of the certified copies of the priorit application from the International Bure see the attached detailed Office action for a list o 	eau (PCT Rule 1	17.2(a)).	· ·		
14) 🗌 Ad	cknowledgment is made of a claim for domestic	priority under 3	5 U.S.C. § 119(e)	(to a provisional application).		
_ a)	☐ The translation of the foreign language prov cknowledgment is made of a claim for domestic	isional applicati	on has been rece	ived.		
Attachment(, ,				
2) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u> .	4)	Interview Summary (Notice of Informal Pa Other:	PTO-413) Paper No(s) stent Application (PTO-152)		
S. Patent and Tra TO-326 (Rev		on Summary		Part of Paper No. 4		
•	200 / 101			rait or raper No. 4		

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is indefinite because the term "transmission circuit" is not defined.

Claim 2 is rejected because it is dependent to claim 1.

Claim 2 is rejected because there is insufficient antecedent basis for the term "the shift size".

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stoner et al (U.S Patent No 6,052,383) in the view of Chao (U.S Patent No 5,278,828).

Regarding claims 1 and 2, Stoner discloses a frame-relay circuit having a frame being written in a memory buffer 7 (fig.1).

Stoner does not disclose that the frame is written from an address shifted from the top of a frame buffer, which is well known in the art for data frame organization in the buffer.

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Chao, for example, discloses a cell (frame) being written in the memory pool 30 starting from the corresponding address in idle queue 34. In other words, the cell is written from an address shift from the top of a frame buffer (fig.8, line 50-65). Therefore it would have been obvious to one having ordinary in the art to use the circuit of Stoner the cell (frame) storing the feature of chao into it, so that received frames are stored in an organized manner in the buffer, and further improving the speed of the buffer.

Regarding claims 3, 6 and 9, Stoner discloses a frame-relay frame transmission circuit for reassembling a frame-relay frame into an asynchronous transfer mode cell comprising:

a Lan interface 18 (frame receiver) for receiving a frame through connection (fig.1);

a memory 7 for storing a receiving frame in a frame buffer (fig.1);

a SAR 34 for reassembling frame into ATM cell (fig.2A).

Stoner does not disclose a processor for determining a shift size for each connection, which is well known in the art for writing the received cell into the memory at corrected location.

Chao, for example, discloses an address distributor (processor) for determining the idle address (shift size) that being used for written a cell (frame) into the cell pool. Therefore, it would have been obvious to one having ordinary skill in the art to have a circuit of Stoner adding a processor of chao's system for determining a shift size for each connection so that the received cell is written into the memory at the corrected location in the memory, and further accessing to the buffer easier (fig.8).

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Regarding claims 4, 7 and 10, Stoner discloses a storing of address and path identification (DLCI) for read and writes into the memory. See Col.6, lines 55 to Col.7 line 25.

Regarding claims 5, 8 and 11, Stoner discloses a received frame is transmitted to direct memory access. See col.4 line 65.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- -Murakami et al (US Patent No. 5,768,274) discloses Cell multiplexer having cell delineation.
 - -Horton (US Patent No. 6,128,300) discloses Line card with modern interface.
- -Von Ahnen et al (US Patent No. 6,205,152 B1) discloses Frame relay-to-ATM interface circuit and method of operation.
- -Timbs (US Patent No. 5,878,045) discloses Method and apparatus for converting data stream in a cell based communication system.
- 5. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Thien Tran whose telephone number is (703) 306-5445. The examiner can normally be reached on Monday-Friday from 8:30AM to 5:00PM.

If attemps to reach the examiner by telephone is unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on (703) 305-4744. Any inquiry of a general

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nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Thien Tran

ALPUS H. HSU PRIMARY EXAMINER

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